IN THE CLAIMS:

(Previously Presented) A chemical composition for obtaining curable elastomeric material from a sulfur-cured, vulcanized elastomeric material, comprising:

sulfur, wherein said sulfur comprises from about 40% to about 65% by weight of said chemical composition;

a mixture of accelerators, including a first accelerator, a second accelerator, and a third accelerator wherein a weight percent ratio of said first accelerator to said second accelerator to said third accelerator ranges from about 3:3:1 to about 4:1:1: and

an activating agent comprising from about 2% to about 6% by weight of said chemical composition.

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3. (Currently Amended) The chemical composition as recited in Claim 1 wherein said-weight percent ratio of said first accelerator to said second accelerator to said third accelerator ranges from about 2.7:2.7:0.6 to about 4.4:1.0:0.6. A chemical composition for obtaining curable clastomeric material from a sulfur-cured, vulcanized elastomeric material, comprising:

sulfur, wherein said sulfur comprises from about 40% to about 65% by weight of said chemical composition;

a mixture of accelerators, including a first accelerator, a second accelerator, and a third

accelerator wherein a weight percent ratio of said first accelerator to said second accelerator to said third accelerator ranges from about 2.7:2.7:06 to about 4.4:1.0:0.6: and

an activating agent comprising from about 2% to about 6% by weight of said chemical composition.

- 4. (Previously Presented) The chemical composition as recited in Claim 1 wherein said first accelerator is N-tert-butyl-2-benzoithiazole sulphenamide, said second accelerator is zinc 2-mercapto benzothiazole and said third accelerator is tetramethylthiuramic monosulphide.
- 5. (Original) The chemical composition as recited in Claim 1 wherein said activating agent includes a zine salt of a fatty acid, wherein said zine salt of a fatty acid comprises from about 3% to about 6% by weight of said chemical composition.
- (Original) The chemical composition as recited in Claim 1 wherein said activating agent includes a mixture of zinc oxide and stearic acid.
- 7. (Original) The chemical composition as recited in Claim 6 wherein said zinc oxide comprises from about 1% to about 3% by weight of said chemical composition and said stearic acid comprises from about 1% to about 3% by weight of said chemical composition.
- (Original) The chemical composition as recited in Claim 1 wherein said first accelerator is N-tert-butyl-2-benzoithiazole sulphenamide and said second accelerator is selected

from the group consisting of zinc 2-mercapto benzothiazole and tetramethylthiuramic monosulphide and said mixture comprises about 34% by weight percent of said chemical composition.

- 9. (Original) The chemical composition as recited in Claim 7 further including a third accelerator wherein said first accelerator is N-tert-butyl-2-benzoithiazole sulphenamide and said second accelerator is zinc 2-mercapto benzothiazole and said third accelerator is tetramethylthiuramic monosulphide.
- 10. (Original) The chemical composition as recited in Claim 8 wherein said N-tert-butyl-2-benzoithiazole sulphenamide comprises from about 4% to about 10% by weight of said chemical composition, said zinc 2-mercapto benzothiazole comprises from about 4% to about 18% by weight of said chemical composition and said tetramethylthiuramic monosulphide comprises from about 3% to about 5% by weight of said chemical composition.
- 11. (Previously Presented) A process for obtaining curable elastomeric material from a sulfur-cured vulcanized elastomeric material, such curable elastomeric material being capable of being recompounded and recurred into a useful elastomeric product, comprising:

reducing said sulfur-cured vulcanized elastomeric material to particle crumbs; and placing said particle crumbs and a chemical composition into a mill, said chemical composition comprising;

sulfur, wherein said sulfur comprises from about 40% to about 65% by weight of

said chemical composition;

a mixture of accelerators, including a first accelerator, as second accelerator, and a third accelerator wherein a weight percent ratio of said first accelerator to said second accelerator to said third accelerator ranges from about 3:3:1 to about 4:1:1; and

an activating agent comprising from about 2% to about 6% by weight of said chemical composition;

applying a shearing force to said mixture of said particle crumbs and said chemical composition for a period of time equal to or less than about 2 minutes and at a temperature ranging from about 75°C to about 85°C.

12. (Original) The process as recited in Claim 11 wherein a ratio of said mixture of particle crumbs to said chemical composition comprises about 100 parts of said crumb and between about 1 to 2 parts said chemical composition.

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- 14. (Previously amended) The process as recited in Claim 11 wherein said activating agent includes a zinc salt of a fatty acid, wherein said zinc salt of a fatty acid comprises from about 3% to about 6% by weight of said chemical composition.
- (Previously Presented) The process as recited in Claim 11 wherein said first accelerator is N-tert-butyl-2-benzoithiazole sulphenamide, said second accelerator is zinc 2-

mercapto benzothiazole and said third accelerator is tetramethylthiuramic monosulphide.

- (Original) The process as recited in Claim 11 wherein said activating agent includes a mixture of zinc oxide and stearic acid.
- 17. (Original) The process as recited in Claim 16 wherein said zinc oxide comprises from about 1% to about 3% by weight of said chemical composition and said stearic acid comprises from about 1% to about 3% by weight of said chemical composition.
- 18. (Original) The process as recited in Claim 11 wherein said first accelerator is N-tert-butyl-2-benzoithiazole sulphenamide and said second accelerator is selected from the group consisting of zine 2-mercapto benzothiazole and tetramethylthiuramic monosulphide and said mixture comprises from about 34% by weight percent of said chemical composition.
- 19. (Original) The process as recited in Claim 18 further including a third accelerator wherein said first accelerator is N-tert-butyl-2-benzoithiazole sulphenamide and said second accelerator is zinc 2-mercapto benzothiazole and said third accelerator is tetramethylthiuramic monosulphide.
- 20. (Original) The process as recited in Claim 19 wherein said N-tert-butyl-2benzoithiazole sulphenamide comprises from about 4% to about 10% by weight of said chemical composition, said zinc 2-mercapto benzothiazole comprises from about 4% to about 18% by

weight of said chemical composition and said tetramethylthiuramic monosulphide comprises from about 3% to about 5% by weight of said chemical composition.